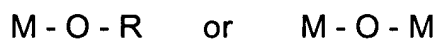


AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A process for the polymerisation of olefin monomers, comprising polymerising an olefin monomer selected from the group consisting of (a) ethylene, (b) propylene, (c) mixtures of ethylene and propylene, and (d) mixtures of (a), (b), or (c) with one or more other alpha-olefins in a polymerisation reactor, ~~said process being carried out~~ in the presence of ~~[[a]]~~ an activated catalyst system ~~comprising~~ including (a) a polymerisation catalyst and (b) an ionic activator, ~~said process characterised in that wherein~~ an organometallic compound of a Group IIIB metal having at least one unit of formula:



where M is the Group IIIB metal and R is a hydrocarbyl group is added to the reactor in the presence of the activated catalyst system.

2. (Currently amended) ~~[[A]]~~ The process according to claim 1, wherein the Group IIIB metal is aluminium or boron.

3. (Currently amended) ~~[[A]]~~ The process according to ~~either of the preceding claims~~ claim 1 or 2, wherein the organometallic compound is an aluminoxane.

4. (Currently amended) ~~[[A]]~~ The process according to claim 3, wherein the aluminoxane is tetraisobutylaluminoxane.

5. (Currently amended) ~~[[A]]~~ The process according to claim 1, wherein the organometallic compound is a metal alkoxide.

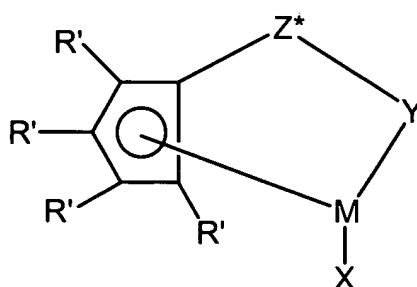
6. (Currently amended) **[[A]]** The process according to claim 5,
wherein the metal alkoxide is diethylaluminium ethoxide.
7. (Currently amended) **[[A]]** The process according to ~~any of the~~
~~preceding claims~~ claim 1, wherein the molar ratio of the organometallic compound to
[[the]] a metal content of the polymerisation catalyst (~~metal~~) is in the range of from 0.1:1
to 1000:1.
8. (Currently amended) **[[A]]** The process according to ~~any of the~~
~~preceding claims~~ claim 7, wherein the molar ratio of the organometallic compound to the
metal content of the polymerisation catalyst (~~metal~~) is in the range of from 1:1 to 100:1.
9. (Currently amended) **[[A]]** The process according to ~~any of the~~
~~preceding claims~~ claim 1, wherein the organometallic compound is added to the reactor
admixed with the activated catalyst system.
10. (Currently amended) **[[A]]** The process according to ~~any of the~~
~~preceding claims~~ claim 1, wherein the organometallic compound is added continuously
to the reactor.
11. (Currently amended) **[[A]]** The process according to ~~any of the~~
~~preceding claims~~ claim 1, wherein the polymerisation catalyst is a metallocene.
12. (Currently amended) **[[A]]** The process according to claim 11,
wherein the metallocene has the formula:



wherein Cp is a single cyclopentadienyl or substituted cyclopentadienyl group optionally
covalently bonded to M through a substituent, M is a Group VIA metal bound in a η^5
bonding mode to the cyclopentadienyl or substituted cyclopentadienyl group, X each

occurrence is hydride or a moiety selected from the group consisting of halo, alkyl, aryl, aryloxy, alkoxy, alkoxyalkyl, amidoalkyl, and siloxyalkyl **[[etc.]]** having up to 20 non-hydrogen atoms and neutral Lewis base ligands having up to 20 non-hydrogen atoms or optionally one X together with Cp forms a metallocycle with M and n is dependent upon the valency of the metal.

13. (Currently amended) **[[A]]** The process according to claim 11, wherein the metallocene is represented by the general formula:



wherein:**[[-]]**

R' each occurrence is independently selected from the group consisting of hydrogen, hydrocarbyl, silyl, germyl, halo, cyano, and combinations thereof, said R' having up to 20 ~~non-hydrogen~~ non-hydrogen atoms, and optionally, two R' groups (where R' is not hydrogen, halo or cyano) together form a divalent derivative thereof connected to adjacent positions of the cyclopentadienyl ring to form a fused ring structure;

X is a neutral η^4 bonded diene group having up to 30 non-hydrogen atoms, which forms a π -complex with M;

Y is -O-, -S-, -NR*-, -PR*-,

M is titanium or zirconium in the + 2 formal oxidation state;

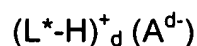
Z* is SiR*₂, CR*₂, SiR*₂SIR*₂, CR*₂CR*₂, CR*=CR*, CR*₂SIR*₂, or

GeR*₂, wherein:

R* each occurrence is independently hydrogen, or a member selected from the group consisting of hydrocarbyl, silyl, halogenated alkyl, halogenated aryl, and combinations thereof, said

R* having up to 10 non-hydrogen atoms, and optionally, two R* groups from Z* (when R* is not hydrogen), or ~~[[an]]~~ a R* group from Z* and ~~[[an]]~~ a R* group from Y form a ring system.

14. (Currently amended) ~~[[A]]~~ The process according to ~~any of the preceding claims~~ claim 1, wherein the ionic activator has the general formula:



wherein

L* is a neutral Lewis base,

(L*-H)⁺_d is a Bronsted acid,

A^{d-} is a non-coordinating compatible anion having a charge of d⁻, and

d is an integer from 1 to 3.

15. (Currently amended) ~~[[A]]~~ The process according to claim 14, wherein the ionic activator ~~comprises~~ includes a cation and an anion, wherein the anion has at least one substituent comprising a moiety having an active hydrogen.